# ThinkServer™ TS130 (1105) - TopSeller (July 2011)

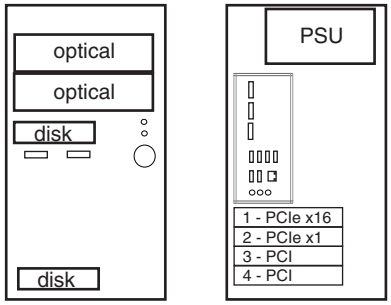


| Type-model | Slot x bay | Processor | GHz | Cores / Threads | Memory DIMMs | Memory speed | Disk(s) | Disk size | Pre-conf RAID | Disk bays | SATA optical | Graphics adapter(s) | Windows Server preload | Power supply(s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105-17U | 4x4 | Core i3-2100 | 3.1 | 2C/4T | 1x2GB | 1333MHz | None | 3.5" | No | 2xDirect Cable | DVD | Intel HD | None | 280W |
| 1105-20U | 4x4 | Xeon E3-1235 | 3.2 | 4C/8T | 1x4GB | 1333MHz | None | 3.5" | No | 2xDirect Cable | DVD | Intel HD | None | 280W |

- ***True server-class reliability and performance at desktop price***
- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These models have a 1-year limited warranty***[1]

| | |
|---|---|
| Processor | **Intel® Core™ i3-2100 Processor (2C/4T, 3.1GHz, 3MB Cache)**, integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz)<br>**Intel Xeon® E3-1235 processor (4C/8T, 3.2GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.6GHz), integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz) |
| Implementation | Processor in LGA1155 socket, up to one processor |
| Memory | 16GB max, **UDIMM**, **PC3-10600 1333MHz DDR3**, **ECC**, four 240-pin DIMM sockets |
| Additional memory disclaimers | • Actual memory operating speed is the lowest installed speed, dependent on proccessor memory controller speed and installed memory speed |
| Graphics | **Intel HD Graphics** in processor, one analog VGA DB-15 connector, one DisplayPort™ connector |
| Disk bays | Two 3.5" SATA disk bays, no hot-swap, direct cable |
| SATA disk(s) | None |
| Optical | DVD-ROM DL SATA 1.5Gb/s 16X-48X Max[4] Drive |
| SATA controller | Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0, 1 support, two SATA 6.0Gb/s connectors, two SATA 3.0Gb/s connectors |
| Chipset | **Intel C206 Chipset**, Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB) |
| Front ports | Two USB 2.0 |
| Rear ports | Six USB 2.0, serial (9-pin), ethernet (RJ-45), three analog audio ports (line-in, line-out, mic-in) one analog VGA DB-15, one DisplayPort |
| Audio | High Definition (HD) Audio, Realtek ALC662 codec |
| Ethernet | One gigabit ethernet on planar, Intel 82579LM |
| Security chip | STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant |
| Diagnostics | Two system status LEDs on front panel (disk drive activity, power/sleep) |
| Keyboard | None (use USB port) |
| Mouse | None (use USB port) |
| Power supply | One 280 watts standard, one maximum, autosensing, no hot-swap, no redundancy, 85% PSU, 80 PLUS® Bronze qualified |
| Cooling | 4 fans (power supply, CPU, rear, front) |

**Tower**




- Raven black color; metal case
- 6.9"W x 16.0"D x 14.9"H
- 175mm W x 407mm D x 377mm H
- 24.7 lb (11.2kg) max configuration
- 25-liter
- Toolless side cover removal
- Toolless disk and optical drive removal
- Toolless adapter retention
- Illuminated front icons

**Disk Bays**

| | | | |
|---|---|---|---|
| Bay 1 | 5.25",1.6" high, | external, | for optical |
| Bay 2 | 5.25",1.6" high, | external, | open (optical/tape) |
| Bay 3 | 3.5", 1" high, | internal, | for disk |
| Bay 4 | 3.5", 1" high, | internal, | for disk |

**Expansion Slots**

Slot 1: half-length, full-height, PCI Express 2.0 x16
Slot 2: half-length, full-height, PCI Express 2.0 x1
Slot 3: half-length, full-height, 32-bit PCI
Slot 4: half-length, full-height, 32-bit PCI

**Intel AMT**

Intel AMT 7.0 is supported on Xeon-model(s)

**Software Management Tools**

- ThinkServer EasyStartup

**Power-On Hotkey**

- Setup Utility: F1 at startup
- Diagnostic: F2 at startup
- Network Boot: F12 at startup
- RAID Configuration Utility: Ctrl+I at startup

**Security**

- Security chip (see information on left)
- Padlock loop (in rear for opt padlock; padlock prohibits side cover removal)
- Security slot (in rear for optional Kensington® Microsaver® cable; prohibits side cover removal)
- Power-on password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- USB port disablement (front or all)

**ENERGY STAR® Server 1.1**-compliant
RoHS-compliant

**Max internal capacity**

4.0TB with two 2TB 3.5" SATA disks

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm, Mon - Fri coverage excluding holidays)**
- **ThinkPlus™ services available; see lenovo.com/thinkplus/warranty**
  - **Onsite service upgrade options (in eligible locations)[7]**
  - **Post warranty maintenance services**
- **24 hour x 7 day[14] toll-free support during the warranty period[1] via 800-426-7378**



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